Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

	_							
LM Start	0.00	Rating **	Α	Issue No.		39		
LM End	0.00	Issue Type +	Ma	Location * N/A				
Category	GPS La	atitude	/Longitude					
Calegory				Start		End		
Item	Operations & Maintenance						0	
пеш	Manuals				0		0	
DWR ID	DWR ID DWR_RD1602_01_s _ 2012_39							
		Comn	nent Cod	de				
		Inspecto	or Comm	nent				
The LMA h	nas all the	O&M manuals	3.					

No Photos

LM Start	0.00	Rating **	Α	Issue No.		77	
LM End	0.00	Issue Type +	Ма	Location *		N/A	
Category	GPS La	atituc	le/Longitude				
Category				Start		End	
Item		cy Supplies &			0		0
пеш	Equipment						0
DWR ID	DWR_RD1	602_01_s _ 201	2_77				
		Comn	nent Cod	de			
	Inspector Comment						
The LMA h	nas enougl	h flood materia	als in ca	se of an inc	ider	nt.	

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.		97		
LM End	0.00	Issue Type +	Ma	Location *		N/A		
Category	GPS La	atitud	le/Longitude					
Category				Start		End		
Item	Flood Preparedness & Training				0		٥	
пеш					٥		0	
DWR ID	DWR_RD1	602_01_s _ 201	2_97					
		Comn	nent Coc	le				
	Inspector Comment							
The I MA h	nae enlid u	nderstanding	and mos	t of them h	21/2	flood		

The LMA has solid understanding and most of them have flood prepareness training. They will have more training this year with other districts.

LM Start	0.00	Rating **	М	Issue No.		40	
LM End	6.23	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory			Start		End		
Item	Vegetatio	n		37.476615°		37.429124 °	
Item				-121.0838	47 °	-121.029743 °	
DWR ID	DWR_RD1	602_01_s _ 201	18_40				
Comment Code							
V1 : Contr	V1 : Control annual grass and weeds on the levee slopes and						

easements.

Inspector Comment

LM Start	0.00	Rating **	М	Issue No.		55
LM End	6.23	Issue Type + Ma Location		Location *	WS	
Category	Earthen L		GPS Latitude/Longitude			
Calegory						End
Item	Vegetatio	n		37.4766	16°	37.429116°
item				-121.0838	47 °	-121.029750 °
DWR ID	DWR_RD1	602_01_s _ 201	8_55			

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements

Inspector Comment

No Photos

No Photos

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	0.09	Rating **	М	Issue No.		60	
LM End	0.11	Issue Type +	Ma	Location *	LS		
Earthen Levee				GPS La	titud	le/Longitude	
Category				Start		End	
Item	Trim / Thi	n Trees	37.47710	61 °	37.477299°		
пеш				-121.08250	04°	-121.082084 °	
DWR ID	DWR_RD1	602_01_s _ 201	8_60				
		Comn	nent Cod	le			
T1: Trim t	rees to at	east five feet	above g	round level.			
		Inspecto	or Comm	nent			



Looking upstream at trees on landward slope.

LM Start	0.13	Rating **	М	Issue No.		73		
LM End	6.23	Issue Type +	Ma	Location *		CR		
Category	Earthen L	evee	GPS Latitude/Longitude					
Calegory				Start		End		
Item		rface / Depres	ssions /	37.4772	29°	37.429111 °		
item	Rutting			-121.0818	94°	-121.029755 °		
DWR ID DWR_RD1602_01_s _ 2018_73								
	Comment Code							

Comment Code

C3: Add appropriate gravel or road base. Grade and compact.

Inspector Comment

Need to control veg. on levee crown and add appropiate gravel

Photo 1 of 1: SP_2018_RD1602_110_73_20180323_00101.jpg



Looking upstream of levee crown.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

		II.					
LM Start	0.14	Rating **	М	Issue No.		26	
LM End	1.63	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		37.4772	91°	37.477498°	
пеш				-121.0816	13°	-121.058624 °	
DWR ID DWR_RD1602_01_f _ 2017_26							
		Comn	nent Cod	le			
V1 : Contre	•	grass and wee	eds on th	e levee slo	pes a	and	
Inspector Comment							



View of the waterside vegetation. Fall 2017

LM Start	0.14	Rating **	М	Issue No.		27
LM End	1.63	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Category				Start		End
Item	Vegetatio	n		37.4772	92°	37.477499°
пеш				-121.0816	13 °	-121.058624°
DWR ID DWR_RD1602_01_f _ 2017_27						
Comment Code						

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View of the vegetation on the landside of the levee. Fall 2017

LM Start	0.18	0.18 Rating ** M		Issue No.		20
LM End	0.18	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee	GPS Latitude/Longitude			
Calegory		Start		End		
Item	Animal Co	ontrol		37.4775	75 °	37.477575°
пеш				-121.08094	43 °	-121.080943 °
DWR ID DWR_RD1602_01_f _ 2016_20						
Comment Code						

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	0.20	Rating **	М	Issue No.		28
LM End	0.20	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Animal Co	ontrol		37.4777	° 90	37.477706 °
пеш				-121.0806	74°	-121.080674 °
DWR ID DWR_RD1602_01_f _ 2015_28						
		Comn	nent Cod	le		
	dents visib r grout bur	le, but rodent rows.	burrows	visible; ne	ed to	backfill and
		Inspecto	or Comm	nent		

Photo 1 of 2 : SP	_2018_	_RD1602_	_110_28_	_20180307_	_00011.jpg
					100
			10-42		(A11/A)
					100
	经生产				
			THE REAL PROPERTY.		
10.7		Manufacture			
		A1.00			Ú.
		The state of		COLUMN STATE OF	
	No.		W	04/57/	<u>4010</u>
7.20 M		R	The same of		

Updated picture of the rodent hole on the waterside of the levee during spring 2016 inspection.

LM Start 0.20 Rating ** M Issue No. 28 (cont) LM End 0.20 Issue Type + Ma Location * WS

Photo 2 of 2: SP_2018_RD1602_110_28_20180307_00012.jpg



A rodent hole was found on the waterside of the levee.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	0.26	Rating **	М	Issue No.		29		
LM End	0.26	Issue Type +	Ма	Location *		WS		
Category	Earthen L	evee		GPS L	atitud	e/Longitude		
Calegory				Start		End		
Item	Animal Co	ontrol		37.4781	38°	37.478138°		
пеш				-121.079810 °		-121.079810 °		
DWR ID	DWR ID DWR_RD1602_01_f _ 2017_29							
		Comn	nent Cod	le				
A3 : No ro compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and		
Inspector Comment								

LM Start	0.26	Rating **	М	Issue No.	29 (cont)
	0.00	Iccuo Typo +	1/10	Location *	MC



View of a rodent hole on the waterside of the levee. Fall 2017

Photo 2 of 2: SP_2018_RD1602_110_29_20180323_00102.jpg



Looking at typical rodent holes on waterward slope. (Spring 2018)

LM Start	0.47	0.47 Rating ** M				31	
LM End	0.47	Issue Type +	Ma	Location *		WS	
Category	GPS La	atitud	le/Longitude				
Category				Start		End	
Item	Animal Co	ontrol		37.479659 °		37.479659	
пеш				-121.0764	19°	-121.076419	
DWR ID	DWR_RD1	602_01_f _ 201	5_31				
Comment Code							
A3 : No rodents visible, but rodent burrows visible; need to backfill and							

compact or grout burrows.

Inspector Comment

No Photos

* Location	n		** Rating		+ Issue Type
LS : La	nd Side N/A: N	lot Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS:W	ater Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Cı	own		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	0.58	Rating **	A/W	Issue No.		200	
LM End	0.58	Issue Type +	Ма	Location *			
Catagony	Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCIP LMA Responsibility			37.48018	32 °	37.480182 °	
пеш				-121.07476	65 °	-121.074765 °	
DWR ID							

Comment Code

Inspector Comment

FS_ID:51325 DS_ID:20215 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed a cover has been added to the CMP riser. (O. Magana - DWR UCIP)10/01/2013 Open 60-inch CMP riser on WS needs lid as it's depth may be a hazard to the public. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 16-inch steel drainage pipe through levee, 11.3 feet below crown. Slide gate in 60-inch corrugated metal pipe (CMP) riser located on the waterside (WS). Concrete inlet is approximately 110 feet west of the levee crown or 110 feet off landside (LS) toe next to roadway. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.58), Drawing No. 7-4-1784].

FS Date: 11/18/2016

LM Start	0.58	Rating **	A/W	Issue No.	200 (cont)
LM End	0.58	Issue Type +	Ma	Location *	



60-inch CMP riser on WS shoulder.

Photo 2 of 3: UCIP_SP_2018_51325_36701.jpg



CMP riser with slide gate on WS shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	0.58	Rating **	A/W	Issue No.		200 (cont)	
LM End	0.58	Issue Type +	Ма	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory	egory			Start		End	
Item	DWR UCIP LMA Responsibility			37.4801	82 °	37.480182 °	
пеш				-121.0747	65 °	-121.074765 °	
DWR ID							

Inspector Comment

Comment Code

FS_ID:51325 DS_ID:20215 EP_NO: N/A

FS Date: 11/18/2016

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed a cover has been added to the CMP riser. (O. Magana - DWR UCIP)10/01/2013 Open 60-inch CMP riser on WS needs lid as it's depth may be a hazard to the public. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 16-inch steel drainage pipe through levee, 11.3 feet below crown. Slide gate in 60-inch corrugated metal pipe (CMP) riser located on the waterside (WS). Concrete inlet is approximately 110 feet west of the levee crown or 110 feet off landside (LS) toe next to roadway. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.58), Drawing No. 7-4-1784].

Photo 3 of 3: UCIP_SP_2018_51325_36700.jpg



Damaged Wooden lid on WS toe.

LM Start	0.64	Rating **	М	Issue No.		30	
LM End	0.64	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
				Start		End	
ltom	Animal Co	ontrol		37.4793	91°	37.479391°	
пеш	Item				68°	-121.074168°	
DWR ID DWR_RD1602_01_f _ 2017_30							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the waterside slope of the levee. Fall 2017

Location	
LS: Land Side	N/A: Not Applicable
WS: Water Side	
CB · Crown	

Rating
A: Acceptable
M: Minimally Acceptable
U: Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	0.77	Rating **	A/W	Issue No.		202	
LM End	0.77	Issue Type +	Ма	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory	ategory			Start		End	
Item	DWR UCIP LMA Responsibility			37.4779	93 °	37.477993 °	
пеш				-121.0726	45 °	-121.072645 °	
DWR ID							

Comment Code

Inspector Comment

FS_ID:51634 DS_ID:20216 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed the debris blocking the outlet has been cleared. (O. Magana - DWR UCIP)10/01/2013 Flap gate blocked from functioning by soil buildup on WS toe. Soil should be cleared. (W. Wylie - DWR UCIP)

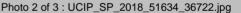
FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 14.4 feet below crown. Concrete "U" headwall on the waterside (WS) and landside (LS) ends. Slide gate in 6-foot by 7-foot concrete surge box is located on the WS shoulder. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 0.78), Drawing No. 7-4-1784].

FS Date: 11/18/2016

LM Start	0.77	Rating **	A/W	Issue No.	202 (cont)
LM End	0.77	Issue Type +	Ma	Location *	



Inlet on LS toe.





Slide gate in concrete box on WS shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	0.77	Rating **	A/W	Issue No.		202 (cont)	
LM End	0.77	Issue Type +	Ma	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory	Jalegory					End	
Item	DWR UC	IP LMA Respo	onsibility	37.4779	93 °	37.477993 °	
пеш			-121.0726	45 °	-121.072645 °		
DWR ID							
Comment Code							

Inspector Comment

FS_ID:51634 DS_ID:20216 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to No Action Needed the debris blocking the outlet has been cleared. (O. Magana - DWR UCIP)10/01/2013 Flap gate blocked from functioning by soil buildup on WS toe. Soil should be cleared. (W. Wylie - DWR UCIP)

FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 14.4 feet below crown. Concrete "U" headwall on the waterside (WS) and landside (LS) ends. Slide gate in 6-foot by 7-foot concrete surge box is located on the WS shoulder. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM

0.78), Drawing No. 7-4-1784].

FS Date: 11/18/2016



Concrete inlet on LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	1.00 Rating ** M		Issue No.		203				
LM End	1.00	Issue Type +	Ма	Location *					
Category	Supplemental				GPS Latitude/Longitude				
Category				Start		End			
Item	DWR UCIP LMA Responsibility			37.47881	6°	37.478816°			
пеш			-121.06878	80 °	-121.068780 °				
DWR ID									

Comment Code

Inspector Comment

FS_ID:51636 DS_ID:20217 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS but pipe is currenly not connected to pump. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned and if so should be done so properly. Flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pumps on the pump platform are located on the landside (LS). Siphon breaker in 24-inch corrugated metal pipe (CMP) riser is located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784]. FS Date: 11/18/2016

 LM Start
 1.00
 Rating **
 M
 Issue No.
 203 (cont)

 LM End
 1.00
 Issue Type +
 Ma
 Location *

Photo 1 of 3: UCIP_SP_2018_51636_36758.jpg



Pumping plant on LS toe. Pipe visible under walkway.

Photo 2 of 3: UCIP_SP_2018_51636_36757.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	1.00	Rating **	М	Issue No.	203 (cont)			
LM End	1.00	Issue Type +	Ма	Location *				
Category Supplemental				GPS Latitude/Longitude				
				Start		End		
Item	DWR UC	IP LMA Respo	nsibility	37.47881	6°	37.478816°		
item				-121.06878	80°	-121.068780°		
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:51636 DS_ID:20217 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS but pipe is currenly not connected to pump. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned and if so should be done so properly. Flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pumps on the pump platform are located on the landside (LS). Siphon breaker in 24-inch corrugated metal pipe (CMP) riser is located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784]. FS Date: 11/18/2016



Siphon breaker in 24-inch CMP riser on WS shoulder.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	1.00 Rating ** M Issu		Issue No.		204	
LM End	1.00	Issue Type +	Ма	Location *		
Supplemental			Supplemental			
Category	Category			Start		End
Item	DWR UC	OWR UCIP LMA Responsibility			7 °	37.478817°
пеш				-121.06877	3°	-121.068773°
DWR ID						

Inspector Comment

Comment Code

FS_ID:51637 DS_ID:20219 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned siphon breakers covered in soil and flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pump on pump platform located on the landside (LS). Siphon breaker in 24-inch riser located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784].

 LM Start
 1.00
 Rating **
 M
 Issue No.
 204 (cont)

 LM End
 1.00
 Issue Type +
 Ma
 Location *

Photo 1 of 3: UCIP_SP_2018_51637_36772.jpg



Pipe visible under walkway at puming plant on LS toe.



Siphon breaker covered in soil at CMP riser on WS shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	1.00 Rating ** M		Issue No.		204 (cont)			
LM End	1.00	Issue Type +	Ма	Location *				
Category	Supplemental				GPS Latitude/Longitude			
Calegory			Start		End			
Item	DWR UCIP LMA Responsibility			37.4788	17°	37.478817°		
пеш			-121.06877	73 °	-121.068773°			
DWR ID								

Comment Code

Inspector Comment

FS_ID:51637 DS_ID:20219 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent a flap gate has been added to the WS. According to Tony Martinez, LMA representative, this crossing is currently not in use. Owner will need to coordinate with CVFPB to obtain permit. (O. Magana - DWR UCIP)10/01/2013 Appears abandoned siphon breakers covered in soil and flapgate missing. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 16-inch steel drainage pipe through levee, 17 feet below crown. Pump on pump platform located on the landside (LS). Siphon breaker in 24-inch riser located on the waterside (WS) shoulder. Concrete "U" headwall and flap gate are located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.01), Drawing No. 7-4-1784].

FS Date: 11/18/2016



Concrete headwall on WS toe with missing flapgate.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type
Ma : Maintenance Deficiancy

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	1.02	Rating **	U	Issue No.		205
LM End	1.02	Issue Type +	Ma	Location *		
Category Supplemental GPS L			Supplemental			
Calegory			Start		End	
Item	DWR UC	onsibility	37.4787	79°	37.478779°	
пеш				-121.06850	08°	-121.068508 °
DWR ID						·

Comment Code

Inspector Comment

FS_ID:51329 DS_ID:20218 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Same as previous inspection headwall on the WS toe has seperated from pipe and flap gate is still missing. Erosion around concrete headwall and undermined WS slope are visible from WS. The slope undermined appears to have progressed but no photos were taken due to the dense vegetation covering area. According to Tony Martinez, LMA representative, the WS concrete headwall has been detached since 2008/2009. LMA has been in contact with CVFPB, DWR, and USACE regarding this site. (O. Magana - DWR UCIP)10/01/2013 Headwall on WS toe seperated from pipe. Erosion around concrete headwall and undermined at WS toe. Flap gate missing from WS toe headwall. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 25.4 feet below crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in concrete surge box located on the WS slope. A 5-foot by 5-foot concrete box is located on LS toe. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.02), Drawing No. 7-4-1784]. FS Date: 11/18/2016

LM Start	1.02	Rating **	U	Issue No.	205 (cont)
LM End	1.02	Issue Type +	Ma	Location *	

Photo 1 of 3: UCIP_SP_2018_51329_36786.jpg



Grated inlet and 5'X5' concrete box on LS toe.

Photo 2 of 3: UCIP_SP_2018_51329_36785.jpg



Grated inlet at LS toe.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	1.02	1.02 Rating ** U		Issue No.		205 (cont)	
LM End	1.02	Issue Type +	Ма	Location *			
Category	Suppleme	ental		GPS Lat	itud	e/Longitude	
Calegory	gory			Start		End	
Item	DWR UC	IP LMA Respo	nsibility	37.47877	9°	37.478779°	
пеш				-121.06850	8 °	-121.068508°	
DWR ID							

Inspector Comment

Comment Code

FS_ID:51329 DS_ID:20218 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Same as previous inspection headwall on the WS toe has seperated from pipe and flap gate is still missing. Erosion around concrete headwall and undermined WS slope are visible from WS. The slope undermined appears to have progressed but no photos were taken due to the dense vegetation covering area. According to Tony Martinez, LMA representative, the WS concrete headwall has been detached since 2008/2009. LMA has been in contact with CVFPB, DWR, and USACE regarding this site. (O. Magana - DWR UCIP)10/01/2013 Headwall on WS toe seperated from pipe. Erosion around concrete headwall and undermined at WS toe. Flap gate missing from WS toe headwall. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 25.4 feet below crown. Concrete "U" headwalls on both waterside (WS) and landside (LS) ends. Slide gate in concrete surge box located on the WS slope. A 5-foot by 5-foot concrete box is located on LS toe. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 1.02), Drawing No. 7-4-1784]. FS Date: 11/18/2016



Slide gate in concrete riser next to shed on WS shoulder.

LM Start	1.05	Rating **	М	Issue No.		2
LM End	1.05	Issue Type +	Ma	Location *	WS	
Catagony	Suppleme	ental	GPS Lat	itud	e/Longitude	
Calegory	Category					End
Item	DWR Ero	sion Survey		37.47856	7°	37.478567 °
пеш				-121.06784	7 °	-121.067847 °
DWR ID	RD1602U0	1RM97.68				

Inspector Comment

Comment Code

09/20/2017: The erosion was discovered during the spring levee inspection. The size of the erosion is roughly estimated due to dense vegetation at the site. [2017 Site ID:RD1602U01RM97.68]

Photo	1 of 1 · SE	2018	PD1602	110	2	20180307	00002 ina	



Close view of the erosion. The erosion is covered by dense vegetation at the site.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	1.05	Rating **	Issue No.		2 (cont)			
LM End	1.05	Issue Type +	Ma	Location *		WS		
Category	Suppleme	ental	GPS La	atitud	e/Longitude			
Calegory		Start		End				
Item	DWR Ero	sion Survey		37.4785	67°	37.478567 °		
пеш				-121.0678	47°	-121.067847°		
DWR ID RD1602U01RM97.68								
Comment Code								

Inspector Comment

09/20/2017: The erosion was discovered during the spring levee inspection. The size of the erosion is roughly estimated due to dense vegetation at the site. [2017 Site ID:RD1602U01RM97.68]

LM Start	1.05	Rating **	М	Issue No.	2 (cont)
LM End	1.05	Issue Type +	Ma	Location *	WS



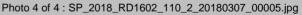
Close view of the erosion.

Photo 3 of 4: SP_2018_RD1602_110_2_20180307_00004.jpg



Looking up at the erosion from the levee toe.

LM Start	1.05	Rating **	М	Issue No.	2 (cont)
LM End	1.05	Issue Type +	Ma	Location *	WS





Close view of the erosion.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	1.13	Rating **	M	Issue No.		76			
LM End	1.17	Issue Type +	Ма	Location *	WS				
Category	evee	GPS La	atitud	e/Longitude					
Calegory				Start		End			
Item	n Trees		37.4783	17°	37.478257°				
пеш				-121.0665	62°	-121.065761 °			
DWR ID	DWR ID DWR_RD1602_01_s _ 2018_76								
		Comn	nent Cod	le					
T1: Trim t	rees to at	least five feet	above g	round level					
Inspector Comment									

No Photos

LM Start	1.19	Rating **	М	Issue No.		32		
LM End	1.19	Issue Type +	Ma	Location *		WS		
Catagonia Earthen Levee				GPS Latitude/Longitude				
Calegory	Category					End		
Item	Animal Co		37.4783	47°	37.478347°			
пеш				-121.0653	61 °	-121.065361 °		
DWR ID	DWR ID DWR_RD1602_01_f _ 2017_32							

No Photos

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

LM Start	1.25	Rating **	М	Issue No.		78			
LM End	1.25	Issue Type +	Ma	Location *		WS			
Category Earthen Levee				GPS Latitude/Longitude					
				Start		End			
Item	Trim / Thi	37.4786	14°	37.478614°					
item	m			-121.0644	90°	-121.064490 °			
DWR ID	DWR ID DWR_RD1602_01_s _ 2018_78								
Comment Code									
T4 : Trim t	T4 : Trim trees over roadway to at least 12 feet above ground level.								

No Photos

Inspector Comment

N/A: Not Applicable

** Rating

A: Acceptable

M: Minimally Acceptable

U: Unacceptable

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	1.57	Rating **	М	Issue No.		33		
LM End	1.57	Issue Type +	Ma	Location *		LS		
Cotogony	evee		GPS La	atitud	e/Longitude			
Category				Start		End		
Item	Encroach	ments	37.4781	13 °	37.478113 °			
пеш				-121.059287°		-121.059287 °		
DWR ID DWR_RD1602_01_f _ 2017_33								
		Comn	nent Cod	le				
PR : Pruni	ngs							
Inspector Comment								



View of prunings on the landside of the levee.

			Issue No.		34			
2.00	Issue Type +	Ma	Location *		LS			
Cotagon Earthen Levee					GPS Latitude/Longitude			
Category					End			
getatio	n		37.4751	92°	37.472106°			
			-121.057957 °		-121.057851 °			
DWR ID DWR_RD1602_01_f _ 2017_34								
	rthen L	rthen Levee getation	getation	then Levee GPS La Start getation 37.4751 -121.0579	then Levee GPS Latitud Start getation 37.475192° -121.057957°			

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View of vegetation on the landside of the levee looking upstream. Fall 2017

* Rating

A : Acceptable

M : Minimally Acceptable

U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	1.99	Rating **	М	Issue No.		38		
LM End	2.81	Issue Type +	Ма	Location *		WS		
Category	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End		
Item	Vegetatio	n		37.4723	847°	37.466694°		
item				-121.057904 ° -121.04618				
DWR ID DWR_RD1602_01_f _ 2017_38								
		Comn	nent Cod	le				
V1 : Contreasements		grass and wee	eds on th	e levee slo	pes	and		
		Inspecto	or Comm	nent				



View of vegetation on the waterside of the levee looking upstream. Fall 2017

LM Start	2.29	Rating **	М	Issue No.		79			
LM End	2.29	Issue Type +	Ма	Location *		WS			
Category	evee	GPS Latitude/Longitude							
Calegory	Category			Start		End			
Item	Animal Control			37.4703	48 °	37.470348°			
пеш				-121.0539	87 °	-121.053987 °			
DWR ID	DWR ID DWR_RD1602_01_s _ 2017_79								
Comment Code									
A3 : No ro	A3 : No rodents visible, but rodent burrows visible; need to backfill and								

compact or grout burrows.

Inspector Comment

No Photos

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	2.56	Rating **	М	Issue No.		81	
LM End	2.56	Issue Type +	Ma	Location *	WS		
Catagony	evee	GPS Latitude/Longitude					
Category				Start		End	
Itom	Animal Co	ontrol		37.4692	68°	37.469268 °	
пеш	-121.049				13 °	-121.049413 °	
DWR ID DWR_RD1602_01_s _ 2017_81							
		Comn	nent Cod	le			

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of a rodent hole on the waterside slope of the levee.

LM Start	2.67	Rating **	М	Issue No.		19				
LM End	2.67	Issue Type +	Ма	Location *		WS				
Catagony	Catagori Earthen Levee					GPS Latitude/Longitude				
Category				Start		End				
Item	Animal Control			37.4682	12 °	37.468212°				
item				-121.048096 °		-121.048096 °				
DWR ID DWR_RD1602_01_s _ 2016_19										

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the waterside of the levee.

LM Start	2.79	Rating **	М	Issue No.		41
LM End	2.79	Issue Type +	Ма	Location *		WS
Category Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End
Item	Animal Co	ontrol		37.46688	37°	37.466887 °
пеш				-121.04646	60°	-121.046460 °
DWR ID DWR_RD1602_01_f _ 2016_41						

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.



View of rodent holes on the waterside slope of the levee. Fall 2016

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	2.82	Rating **	М	Issue No.		44	
LM End	2.82	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		37.4666	45°	37.466645 °	
пеш				-121.0461	-121.046148 °		
DWR ID DWR_RD1602_01_f _ 2016_44							
		Comn	nent Cod	le			
A3 : No ro compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and	
		Inspecto	or Comm	nent			



View of redoent holes on the landside of the levee.

LM Start	2.85	Rating **	M	Issue No.		46		
LM End	2.85	Issue Type +	Ma	Location *	WS			
Category	Earthen L	Earthen Levee GPS Latitude/Longitu				le/Longitude		
Category	egory			Start		End		
Item	Animal Co	ontrol		37.46629	4°	37.466294°		
пеш				-121.045693 ° -121.0456				
DWR ID DWR_RD1602_01_f _ 2016_46								
	Comment Code							

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	2.86	Rating **	М	Issue No.	No. 47	
LM End	2.86	Issue Type +	Ма	Location *	WS	
Earthen Levee			GPS La	titud	e/Longitude	
Category				Start		End
Item	Animal Co	ontrol		37.46616	6°	37.466166°
item				-121.04552	7°	-121.045527°
DWR ID DWR_RD1602_01_f _ 2016_47						
Comment Code						

A3: No rodents visible, but rodent burrows visible; need to backfill and

compact or grout burrows.

Inspector Comment

Photo 1 of 1 : SP_2018_RD1602_110_47_20180307_00027.jpg



View of rodent holes on the waterside of the levee. Fall 2016

LM Start	2.89	Rating **	М	Issue No.		49	
LM End	2.89	Issue Type +	Ма	Location *	n* WS		
Earthen Levee			GPS Latitude/Longitude				
Calegory	Category				Start		
Item	Animal Control			37.4658	98°	37.465898	0
пеш	em 			-121.0452	09 °	-121.045209	0
DWR ID DWR_RD1602_01_f _ 2016_49							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the waterside slope of the levee. Spring 2017

Photo 1 of 1: SP_2018_RD1602_110_51_20180307_00031.jpg

LM Start	2.95	Rating **	М	Issue No.		51	
LM End	2.95	Issue Type +	Ма	Location *		WS	
Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Animal Co	ontrol		37.46519	o°	37.465190°	
пеш				-121.04458	4 °	-121.044584°	
DWR ID DWR_RD1602_01_f _ 2016_51							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.



View of a rodent hole on the waterside of the levee.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	3.16	Rating **	М	Issue No.		25		
LM End	3.16	Issue Type +	Ma	Location *		WS		
Earthen Levee			GPS Latitude/Longitude					
Calegory	Category					End		
Item	Animal Co	ontrol		37.4629	47 °	37.462947°		
item				-121.0419	67 °	-121.041967 °		
DWR ID DWR_RD1602_01_s _ 2016_25								
	Comment Code							

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the waterside toe of the levee looking upstream. Fall 2016

Photo 1 of 1: SP_2018_RD1602_110_56_20180307_00033.jpg

LM Start	3.32	Rating **	М	Issue No.		56
LM End	3.32	Issue Type +	Ма	Location *		LS
Category	Earthen L	GPS Latitude/Longitude				
Calegory			Start		End	
Item	Animal Co	ontrol		37.4608	11 °	37.460811 °
item	-121.042078 ° -121.042078					
DWR ID DWR_RD1602_01_s _ 2017_56						
		^	. ^			

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.





View of rodent holes on the landside of the levee. Fall 2016

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	3.33	Rating **	М	Issue No.		53	
LM End	3.49	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory						End	
Item	Vegetatio	Vegetation			85°	37.458892 °	
пеш				-121.0421	76°	-121.043794 °	
DWR ID	DWR_RD1	602_01_f _ 201	7_53				
	Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.							

Inspector Comment

No Photos

LM Start	3.43	Rating **	М	Issue No.		57	
LM End	3.43	Issue Type +	Ma	Location *		WS	
Category	evee		GPS Latitude/Longitude				
Calegory				Start		End	
Item	Animal Co	ontrol		37.4595	52°	37.459552°	
item				-121.0432	79°	-121.043279°	
DWR ID DWR_RD1602_01_f _ 2017_57							
	Comment Code						

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of a rodent hole on the waterside of the levee.

LM Start	3.76	Rating **	М	Issue No.		83	
LM End	3.76	Issue Type +	Ma	Location *	WS		
Category	evee	GPS La	titud	le/Longitude			
Calegory				Start		End	
Item	Encroachments			37.455414°		37.455414°	
item				-121.04376	55°	-121.043765 °	
DWR ID	DWR ID DWR_RD1602_01_s _ 2017_83						
Comment Code							
TR: Tree	or limb						



View of a tree trunk on the waterside slope of the levee.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	3.90	Rating **	М	Issue No.	84		
LM End	3.90	Issue Type +	Ма	Location *	WS		
Category	Earthen Levee					le/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		37.4535	66°	37.453566 °	
пеш				-121.0423	76°	-121.042376 °	
DWR ID DWR_RD1602_01_s _ 2017_84							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the waterside of the levee.

LM Start	3.93	Rating **	М	Issue No.		62	
LM End	3.93	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Slope Sta	ope Stability			16°	37.453216°	
iteiii				-121.0421	27°	-121.042127°	
DWR ID	DWR_RD1	602_01_s _ 201	2_62				

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Significant damage to USACE constructed seepage berm due to human activity.

Photo 1 of 1 : SP_2018_RD1602_110_62_20180307_00038.jpg



Repair damage to USACE constructed seepage berm by pedestrian and cycle traffic.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	3.96	Rating **	М	Issue No.	85		
LM End	3.96	Issue Type +	Ma	Location *		CR	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Category				Start		End	
Item		rface / Depres	ssions /	37.4529	31 °	37.452931	0
пеш	Rutting			-121.041863 °		-121.041863	0
DWR ID	DWR_RD1	602_01_s _ 201	17_85				
		Comn	nent Cod	le			
C1 : Add a above the		material and vation.	re-grade	the levee	to br	ing the crown	
	Inspector Comment						

No Photos

LM Start	3.98	Rating **	М	Issue No.		69
LM End	3.98	Issue Type +	Ма	Location *		WS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory			Start		End	
Item	Animal Co	ontrol		37.4526	40 °	37.452640 °
пеш			-121.0416	46 °	-121.041646 °	
DWR ID	DWR ID DWR_RD1602_01_f _ 2016_69					

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	4.02 Rating ** M			Issue No.		58	
LM End	4.02	Issue Type +	Ma	Location *		WS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Animal Control			37.4521	18°	37.452118 °	
item				-121.041306°		-121.041306°	
DWR ID	DWR_RD1602_01_f _ 2017_58					·	
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of rodent holes on the waterside of the levee.

** Rating

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy Ob: Design & System Obsolescence C: Corrected U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	4.24	Rating **	М	Issue No.		71	
LM End	4.24	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory		Start		End			
Item	Animal Co	Animal Control			° 80	37.449608 °	
пеш				-121.038968 °		° -121.038968 °	
DWR ID	DWR_RD1	602_01_f _ 201	6_71				
		Comn	nent Cod	de			
A3 : No roc compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and	
		Inspecto	or Comm	nent			

No Photos

LM Start	4.35	Rating **	М	Issue No.		88		
LM End	4.35	Issue Type +	Ma	Location *		WS		
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Animal Co	ontrol		37.4481	70°	37.448170°		
пеш				-121.0380	72 °	-121.038072°		
DWR ID	DWR_RD1	602_01_s _ 201	7_88					
	Comment Code							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of a rodent hole on the waterside slope of the levee.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	4.48	Rating **	М	Issue No.		90
LM End	4.48	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Encroach	ments		37.4464	13 °	37.446413 °
item			-121.0378	88 °	-121.037888 °	
DWR ID	DWR_RD1	7_90				
		Comn	nent Cod	le		
PR : Pruni	ngs					
			_			
		Inspecto	or Comm	ent		

No Photos

LM Start	4.52	Rating **	М	Issue No.		35		
LM End	4.52	Issue Type +	Ма	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory		Start		End				
Item	Animal Co	ontrol		37.4457	85°	37.445785°		
Item		-121.037774 ° -121.03777						
DWR ID	DWR_RD1602_01_s _ 2016_35							
		Comn	nent Cod	le				
A1 : Exter	minate rod	ents and back	fill and c	compact or	grou	t burrows.		
		Inspecto	or Comm	nent				



View of an animal hole on the waterside shoulder of the levee looking downstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

		II.					
LM Start	4.55	Rating **	М	Issue No.		91	
LM End	4.55	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
			Start		End		
Item	Animal Co	nimal Control			02°	37.445402°	
				-121.037706 °		° -121.037706 °	
DWR ID	DWR_RD1602_01_s _ 2017_91						
		Comn	nent Cod	de			
A3 : No ro compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and	
		Inspecto	or Comm	nent			



View of rodent holes on the waterside of the levee looking downstream. Spring 2017

LM Start	4.60	Rating **	U	Issue No. 65		65	
LM End	4.60	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Itom	Animal Co	ontrol		37.4446	66 °	37.444666 °	
ltem				-121.0377	48 °	-121.037748°	
DWR ID	DWR_RD1						
Comment Code							

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of a rodent hole on the waterside of the levee. Fall 2017

Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	4.64	Rating **	М	Issue No.		68	
LM End	5.23	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS L	atitud	le/Longitude	
Category				Start		End	
Item	Vegetatio	n		37.4440	38°	37.436190	0
пеш		-121.037963 °		-121.036132	0		
DWR ID	DWR_RD1	602_01_f _ 201	7_68				
		Comn	nent Cod	le			
V2 : Remo slopes.	V2 : Remove the wild growth other than native grasses from the levee slopes.						
	Inspector Comment						

No Photos

LM Start	4.67	Rating **	М	Issue No.		72	
LM End	5.23	Issue Type +	Ma	Location *		WS	
Category	Earthen L	hen Levee		GPS Latitud		de/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		37.44371	9°	37.436190	0
item				-121.03790)2 °	-121.036135	0
DWR ID	DWR_RD1	602_01_f _ 201	7_72				

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

No Photos

LM Start	4.77	Rating **	М	Issue No.		74		
LM End	4.77	Issue Type +	Ма	Location *		WS		
Catagony	Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End			
Item	Animal Co	ontrol		37.442465°		37.442465 °		
пеш				-121.0369	47 °	-121.036947 °		
DWR ID	DWR ID DWR_RD1602_01_s _ 2015_74							
		Comn	nent Coo	le				

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



View of a rodent hole on the waterside toe of the levee.

*Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy Ob: Design & System Obsolescence

C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.09	Rating **	М	Issue No.		199	
LM End	5.09	Issue Type +	Ма	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory			Start		End		
Item	Animal Co	ontrol		37.4381	65 °	37.438165	0
пеш				-121.0370	73 °	-121.037073	0
DWR ID DWR_RD1602_01_s _ 2014_199							
	Comment Code						

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment



Rodent holes were found on the waterside toe of the levee looking upstream.

Photo 1 of 1: SP_2018_RD1602_110_92_20180307_00052.jpg

LM Start	5.13	Rating **	М	Issue No.		92	
LM End	5.13	Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory		Start		End			
Item	Animal Co	ontrol		37.4375	27°	37.437527°	
пеш				-121.0369	67°	-121.036967 °	
DWR ID DWR_RD1602_01_s _ 2017_92						·	
		C		l_			

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.



View of a rodent hole on the waterside shoulder of the levee looking downstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.18	Rating **	U	Issue No.		48	
LM End	5.18	Issue Type +	Ma	Location *	cation * WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory		Start		End			
Item	Animal Co	ontrol		37.4367	85°	37.436785	0
пеш			-121.0365	93 °	-121.036593	0	
DWR ID	ID DWR_RD1602_01_s _ 2016_48						

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes possibly worsen by dogs.



View of rodent holes on the waterside of the levee looking downstream.

LM Start	5.19	Rating **	М	Issue No.		209
LM End	5.19	Issue Type +	Ma	Location *		
Category	Suppleme	ental		GPS La	atitud	le/Longitude
Calegory	tegory					End
Item	DWR UC	IP LMA Respo	onsibility	37.4367	48 °	37.436748 °
пеш				-121.0365	97 °	-121.036597 °
DWR ID						

Comment Code

Inspector Comment

FS_ID:51336 DS_ID:20208 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Same as previous inspection soil and debris prevent flap gate from properly fuctioning and slide gate won't close due to sediment build up. Crossing has been downgraded from Urgent to Non-Urgent due to no pipe or levee integrity issues observed during the site visit. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with CVFPB to properly abandon or remove according to Title 23 requirements. (O. Magana - DWR UCIP)10/01/2013 Soil and debris prevent flapgate from proper function. Slide gate won't close completely due to sediment buildup. CMP riser needs cover. (W. Wylie - DWR UCIP)

FIÉLD_STRUCT_DESC: 24-inch steel pipe through levee, 11.6 feet below crown. Concrete headwall on the landside (LS) end. Concrete "U" headwall and flap gate located on the waterside (WS) end. Slide gate in 60-inch corrugated metal pipe (CMP) riser is located on the WS slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.23), Drawing No. 7-4-1784].

FS Date: 11/18/2016

Photo 1 of 3: UCIP_SP_2018_51336_36822.jpg



Slide gate in CMP riser on WS slope. Outlet visible under tree in background.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.19	Rating **	М	Issue No.		209 (cont)
LM End	5.19	Issue Type +	Ма	Location *		
Category				GPS Latitude/Longitude		
Calegory			Start		End	
Item	DWR UCI	P LMA Respo	nsibility	37.43674	8°	37.436748 °
пеш				-121.03659	7 °	-121.036597 °
DWR ID						

Comment Code

Inspector Comment

FS_ID:51336 DS_ID:20208 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Same as previous inspection soil and debris prevent flap gate from properly fuctioning and slide gate won't close due to sediment build up. Crossing has been downgraded from Urgent to Non-Urgent due to no pipe or levee integrity issues observed during the site visit. Need to contact owner to determine status of crossing. If crossing is no longer in use owner will need to coordinate with CVFPB to properly abandon or remove according to Title 23 requirements. (O. Magana - DWR UCIP)10/01/2013 Soil and debris prevent flapgate from proper function. Slide gate won't close completely due to sediment buildup. CMP riser needs cover. (W. Wylie - DWR UCIP)

FIÉLD_STRUCT_DESC: 24-inch steel pipe through levee, 11.6 feet below crown. Concrete headwall on the landside (LS) end. Concrete "U" headwall and flap gate located on the waterside (WS) end. Slide gate in 60-inch corrugated metal pipe (CMP) riser is located on the WS slope. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.23), Drawing No. 7-4-1784].

FS Date: 11/18/2016

LM Start	5.19	Rating **	М	Issue No.	209 (cont)
LM End	5 19	Issue Type +	Ma	Location *	



Flapgate in Concrete headwall on WS toe under tree.

Photo 3 of 3: UCIP_SP_2018_51336_36820.jpg



Concrete headwall at intlet on LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

5.22	Rating **	U	Issue No.		52		
5.22	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude			
			Start		End		
Animal Co	ontrol		37.4363	93 °	37.436393	0	
			-121.0362	96°	-121.036296	0	
DWR ID DWR_RD1602_01_s _ 2018_52							
	5.22 Earthen L Animal Co	5.22 Issue Type + Earthen Levee Animal Control	5.22 Issue Type + Ma Earthen Levee Animal Control	5.22 Issue Type + Ma Location * Earthen Levee GPS La Start Start Animal Control 37.4363 -121.0362	5.22 Issue Type + Ma Location * Earthen Levee GPS Latitude Start Animal Control 37.436393 ° -121.036296 °	5.22 Issue Type + Ma Location * WS Earthen Levee GPS Latitude/Longitude Start End Animal Control 37.436393 ° 37.436393 -121.036296 ° -121.036296 ° -121.036296	

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Large rodent hole on waterward slope.



Looking at rodent hole and erosion around rodent hole on waterward slope.

LM Start	5.23	Rating **	A/W	Issue No.		210
LM End	5.23	Issue Type +	Ma	Location *		
Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End
Item	DWR UCI	IP LMA Respo	onsibility	37.4362	46°	37.436246 °
iteiii				-121.0361	93 °	-121.036193 °
DWR ID						

Comment Code

Inspector Comment

FS_ID:21665 DS_ID:20209 EP_NO: 8192

Repair Type: No Action Needed Crossing Status: Found

UCIP Comments:

FIELD_STRUCT_DESC: 1 of 2: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 15.8 feet below the crown. Slide gate in a 6-foot by 7-foot concrete surge box on the waterside (WS) slope. 36-inch concrete pipes buried on both sides of the levee and connected to the reinforced concrete box culvert. Constructed through the levee section. (two 36-inch by 36-inch culvert [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 8192, 1972 - Stanislaus County). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.27), Drawing No. 7-4-1784].

Photo 1 of 2: UCIP_SP_2018_21665_36829.jpg



Shed with slide gate in Concrete riser on WS shoulder.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.23	Rating **	A/W	Issue No.	210 (cont)		
LM End	5.23	Issue Type +	Ма	Location *			
Supplemental			GPS Latitude/Longitude				
Calegory				Start		End	
Item	DWR UCI	P LMA Respo	nsibility	37.43624	16°	37.436246°	
item					93 °	-121.036193 °	
DWR ID	DWR ID						
Comment Code							

Inspector Comment

FS_ID:21665 DS_ID:20209 EP_NO: 8192

Repair Type: No Action Needed Crossing Status: Found UCIP Comments:

FIELD_STRUCT_DESC: 1 of 2: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 15.8 feet below the crown. Slide gate in a 6-foot by 7-foot concrete surge box on the waterside (WS) slope. 36-inch concrete pipes buried on both sides of the levee and connected to the reinforced concrete box culvert. Constructed through the levee section. (two 36-inch by 36-inch culvert [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 8192, 1972 - Stanislaus County). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.27), Drawing No. 7-4-1784].

FS Date: 10/1/2013



Likely risers for pipe off LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.23	5.23 Rating ** A/W		Issue No.		211
LM End	5.23	Issue Type +	Ма	Location *		
Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End
Item	DWR UCI	P LMA Respo	onsibility	37.43622	27°	37.436227°
пеш				-121.03616	9°	-121.036169°
DWR ID						

Comment Code

Inspector Comment

FS_ID:21668 DS_ID:20222 EP_NO: 8192

Repair Type: No Action Needed Crossing Status: Found UCIP Comments:

FIELD_STRUCT_DESC: 2 of 2: 36-inch by 36-inch reinforced concrete box drainage culvert through the levee, 15.8 feet below the crown. Slide gate in a 6-foot by 7-foot concrete surge box on the waterside (WS) slope. 36-inch concrete pipes buried on both sides of the levee and connected to the reinforced concrete box culvert. Constructed through the levee section. (two 36-inch by 36-inch culvert [HLM 5.27] authorized under Automatic Board Order (ABO) issued as Permit No. 8192, 1972 - Stanislaus County). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.27), Drawing No. 7-4-1784].

FS Date: 10/1/2013

LM Start	5.23	Rating **	A/W	Issue No.	211 (cont)
LM End	5.23	Issue Type +	Ma	Location *	



Slide gate in Concrete vault on WS shoulder.

Photo 2 of 2: UCIP_SP_2018_21668_36834.jpg



Possible concrete risers for pipe off LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.24	5.24 Rating ** A/W		Issue No.		212
LM End	5.24	Issue Type +	Ма	Location *		
Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End
Item	DWR UCI	P LMA Respo	onsibility	37.43612	9°	37.436129°
пеш				-121.03606	5 °	-121.036065 °
DWR ID						

Comment Code

Inspector Comment

FS_ID:21672 DS_ID:20210 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found UCIP Comments:

FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12.9 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) slope. Concrete discharge boxes on both ends. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784].

FS Date: 10/1/2013

LM Start	5.24	Rating **	A/W	Issue No.	212 (cont)
LM End	5.24	Issue Type +	Ma	Location *	



Slidegate in concrete riser on WS shoulder.

Photo 2 of 3: UCIP_SP_2018_21672_36847.jpg



Concrete outlet on WS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.24	Rating **	A/W	Issue No.	212 (cont)			
LM End	5.24	Issue Type +	Ма	Location *				
Category	Supplemental				GPS Latitude/Longitude			
Calegory			Start			End		
Item	DWR UC	IP LMA Respo	nsibility	37.43612	29°	37.436129°		
Item					65 °	-121.036065 °		
DWR ID								
Comment Code								

Inspector Comment

FS_ID:21672 DS_ID:20210 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found UCIP Comments:

FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12.9 feet below the crown. Slide gate in a concrete surge box on the waterside (WS) slope. Concrete discharge boxes on both ends. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784].

FS Date: 10/1/2013



Concrete inlet on LS toe.

LM Start	5.29	Rating **	U	Issue No.	75		
LM End	5.91	Issue Type +	Ma	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Category			Start Er				
Item	Vegetatio	n		37.4355	55 °	37.432716 °	
пеш				-121.0353	62 °	-121.026134 °	
DWR ID DWR_RD1602_01_s _ 2012_75							
Comment Code							

 $\ensuremath{\mathsf{V2}}$: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Photo 1 of 2: SP_2018_RD1602_110_75_20180307_00046.jpg



Vegetation was found on the waterside slope of the levee looking upstream during fall 2016 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.29	Rating **	U	Issue No.	75 (cont)	
LM End	5.91	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Vegetatio	n		37.4355	55°	37.432716 °
пеш				-121.0353	62 °	-121.026134 °
DWR ID	DWR_RD1	602_01_s _ 201	2_75			
		Comn	nent Cod	le		
V2 : Remo	ve the wild	d growth other	than na	tive grasses	s fro	m the levee
Inspector Comment						



Looking at upstream at dense vegatation on waterward slope. (Spring 2018)

LM Start	5.35	Rating **	М	Issue No.	61		
LM End	6.22	Issue Type +	Ма	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Calegory				Start End			
Item	Vegetatio	n		37.4347	32°	37.429165 °	
пеш				-121.0350	88 °	-121.029682 °	
DWR ID DWR_RD1602_01_s _ 2012_61							
Comment Code							

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment



Vegetation was obstructing the view of the landside of the levee.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.46	Rating **	М	Issue No.	213		
LM End	5.46	Issue Type +	Ма	Location *			
Supplemental				GPS Latitude/Longitude			
Category	Start End					End	
Item	DWR UCI	P LMA Respo	onsibility	37.43364	46 °	37.433646°	
пеш				-121.03384	46 °	-121.033846 °	
DWR ID	₹ ID						
	Comment Code						

Inspector Comment

FS_ID:21674 DS_ID:20211 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe appears abandoned and if so should be done so

properly.

FIELD_STRUCT_DESC: *ABANDONED* 12-inch drainage pipe of an unknown material through the levee, 6.9 feet below the crown. Flap gate on the waterside (WS) end. Could not locate, March 1984. (Reclamation District No. 1602). [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin O&M Manual 13, April 1964, (HLM 5.50), Drawing No. 7-4-1784].

FS Date: 10/1/2013



Pipe and flapgate visible on WS toe.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type
Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.72	Rating **	М	Issue No.	214	
LM End	5.72	Issue Type +	Ма	Location *		
Supplemental				GPS La	titud	le/Longitude
Category			Start		End	
Item	DWR UCI	P LMA Respo	onsibility	37.43300)3 °	37.433003 °
item				-121.02934	16°	-121.029346°
DWR ID						
Comment Code						

Inspector Comment

FS_ID:51337 DS_ID:20212 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent flap gate is functional. Recommend clearing dense vegetation from WS and LS slopes. (O. Magana - DWR UCIP)10/01/2013 Flappate has minor blockage preventing gate from

fully closing. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 9 feet below crown. Slide gate in concrete surge box is located on the waterside (WS) slope. Concrete "U" headwalls are located on both the waterside (WS) and landside (LS) ends. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784].

FS Date: 11/18/2016

LM Start	5.72	Rating **	М	Issue No.	214 (cont)
LM End	5.72	Issue Type +	Ma	Location *	



Slide gate in concrete riser on WS shoulder.

Photo 2 of 3: UCIP_SP_2018_51337_36877.jpg



Concrete U-shaped headwall on LS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 1602 Del Puerto

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.24	03/13/2018 03/13/2018	Richard Willoughby

LM Start	5.72	Rating **	М	Issue No.		214 (cont)
LM End	5.72	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UC	IP LMA Respo	onsibility	37.4330	03°	37.433003 °
пеш				-121.0293	46 °	-121.029346 °
DWR ID						

Comment Code

Inspector Comment

FS_ID:51337 DS ID:20212 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 11/18/2016 Crossing has been downgraded from Urgent to Non-Urgent flap gate is functional. Recommend clearing dense vegetation from WS and LS slopes. (O. Magana - DWR UCIP)10/01/2013 Flapgate has minor blockage preventing gate from

fully closing. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 30-inch square reinforced concrete box culvert through levee, 9 feet below crown. Slide gate in concrete surge box is located on the waterside (WS) slope. Concrete "U" headwalls are located on both the waterside (WS) and landside (LS) ends. Flap gate is located on the WS end. [Additional Reference(s): DWR Levee Log, 1992. USACE San Joaquin River O&M Manual Unit 13, April 1964, (HLM 5.28), Drawing No. 7-4-1784].

FS Date: 11/18/2016

Photo 3 of 3: UCIP_SP_2018_51337_36876.jpg

Concrete U-shaped headwall on LS toe.

LM Start	6.13	Rating **	U	Issue No.	86			
LM End	6.13	Issue Type +	Ма	Location *	WS			
Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Vegetatio	n		37.43018	31 °	37.430181 °		
пеш				-121.02867	'9	-121.028679°		
DWR ID DWR_RD1602_01_s _ 2018_86								
	Comment Code							

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Cactus blocking view of waterward slope.

Photo 1 of 1: SP_2018_RD1602_110_86_20180323_00113.jpg



Looking south at dense cactus on waterward slope.